



Molecular Mechanisms and Pathophysiology of Myocardial Disease

Guest Editors:

Prof. Dr. Inna P. Gladysheva

Department of Internal Medicine,
University of Arizona College of
Medicine—Phoenix, Phoenix, AZ
85004, USA

Dr. Ryan D. Sullivan

Department of Internal Medicine,
University of Arizona College of
Medicine – Phoenix, Phoenix, AZ
85004, USA

Deadline for manuscript
submissions:

closed (15 May 2024)

Message from the Guest Editors

Numerous advances have been made in cardiovascular medicine in recent years, though a complete understanding of the mechanisms and pathophysiology remain largely under-reported. Details at the molecular level of the myocardium and systemic molecular mechanisms are needed to improve the understanding of disease development, progression, and endstage characteristics. The specialized muscle is important for cardiac contractility, ion exchange, systemic perfusion, coronary circulation, and pathological/compensatory remodeling. Physiological changes from inflammation or infection, fluid dynamics, or concurrent diseases (comorbidities: diabetes mellitus, renal and liver dysfunction, atherosclerosis, sarcopenia/cachexia, COPD) also have profound outcomes on the myocardium. New insights may lead to discovery of potential biomarkers, targets for pharmacological intervention, and eventually preventative strategies for those at risk of cardiomyopathy and resulting heart failure.

We welcome original research, reviews, and brief reports focusing on molecular mechanisms and pathophysiology associated with myocardial disease and heart failure.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI